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PRE-APPEAL BRIEF REQUEST FOR REVIEW		Docket Number (Optional) 200205662-1	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)]	Application Number		10/28/2003
on 03/14/2006 Signature Collen F. Success	First Named Inventor Stewart R. WYATT		
Typed or printed Colleen F. Brown	Art Unit 2182]	Scott C. Sun
Applicant requests review of the final rejection in the above-identified application. No amendments are being filed with this request.			
This request is being filed with a notice of appeal.			
The review is requested for the reason(s) stated on the attached sheet(s). Note: No more than five (5) pages may be provided.			
I am the applicant/inventor.		Jan C	Signature
assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)	Ala	n D. Christen	
attorney or agent of record. 54,036	(713) 238-8000		
attorney or agent acting under 37 CFR 1.34.	Telephone number 03/14/2006		
Registration number if acting under 37 CFR 1.34	Date		
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.			
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This collection of information is required by 35 U.S.C. 132. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.8. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form end/or suggestions for reducing this burden, should be sent to the Chief information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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MAR 1 4 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Stewart R. WYATT et al. Appellants:

Confirmation No.:

5968

Serial No.:

10/695,363

Group Art Unit:

2182

Filed:

10/28/2003

Examiner:

Scott C. Sun

For:

 ω A System Having A Storage Controller That Modifies Operation Of A Storage System Based On The Status Of A Data Š

Docket No.:

200205662-1

Date: March 14, 2006

Transfer

PRE-APPEAL BRIEF REQUEST FOR REVIEW

Mail Stop AF Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Appellants hereby submit this Pre-Appeal Brief Request for Review in connection with the above-identified application. A Notice of Appeal is filed concurrently herewith. This Brief addresses the rejection of claims 1-2 and 4-9.

Claim 1, in part, requires "to conserve power, the storage controller modifies operation of the storage system based on a status of the data transfer." Claim 1 further requires that "the storage controller modifies operation of the storage system by turning off a portion of the storage system."

The Examiner recognizes that Trost does not disclose "the storage controller modifies operation of the storage system by turning off a portion of the storage system" as required in claim 1, but asserts that White's sleep mode results in turning off an error correction decoding circuit 5. White does not explicitly teach the error correction decoding circuit 5 is turned off during the sleep mode. Instead, White teaches the error correction decoding circuit 5 receives a sleep on/sleep off signal and initiates decoding when re-entering a normal mode (paragraph [0020]). The sleep ON/sleep OFF signal does not necessarily relate

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to an on/off state. For example, White's refresh period controller 7 uses a sleep ON signal simply to reduce a refresh rate (see col. 2, paragraph [0018]-[0020]). Also, White's error correction encoding circuit 3 uses the sleep ON signal to begin encoding the contents of the DRAMs 13 (see paragraph [0020]). Thus White's sleep mode and/or sleep ON signals do not teach or even suggest "turning off a portion of the storage system" as required in claim 1.

Even if White were combined with Trost, the combination still would not teach Appellants' claimed "to conserve power, the storage controller modifies operation of the storage system based on a status of the data transfer, wherein the storage controller modifies operation of the storage system by turning off a portion of the storage system." Instead, the combination would adjust the frequency of a variable rate oscillator based on the fullness of a FIFO buffer as taught in Trost and reduce a DRAM refresh rate when a sleep mode is activated White's sleep mode is only activated based on a as taught in White. predetermined time period elapsing with no user activity (e.g., striking a key or moving a mouse) (see paragraphs [0025] and [0029]). Thus even if White were interpreted to teach turning off the error correction decoding circuit 5 In the sleep mode as suggested by the Examiner, the sleep mode of the combination would still occur after a predetermined time period elapses with no user activity (e.g., striking a key or moving a mouse). Since the proposed modification cannot change the principle of operation of a reference (see MPEP 2143.01), the combination of Trost and White still fails to teach Appellants' claimed "to conserve power, the storage controller modifies operation of the storage system based on a status of the data transfer, wherein the storage controller modifies operation of the storage system by turning off a portion of the storage system." For at least these reasons, claim 1 and its dependent claims are allowable over the cited references.

In addition to the reasons provided with respect to claim 1, claim 6 requires "the storage controller modifies operation of the storage system by turning off the error correction logic of the storage memory interface in the storage system." As previously described, White implements error correction logic including an error

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correction encoder 3 and an error correction decoder 5. The error correction encoder 3 performs encodes the contents of White's DRAMs during a sleep mode (see paragraph [0020]). When entering a normal mode, the error correction decoder 5 initiates the detection and correction of errors (see paragraph [0020]). White does not teach or suggest the error correction encoder 3 and error correction decoder 5 are turned off as required by Appellants' claimed "the storage controller modifies operation of the storage system by turning off the error correction logic of the storage memory interface in the storage system." None of the references cited by the Examiner, considered individually or together, teach or suggest the above limitation. For at least these additional reasons, claim 6 is allowable over the cited references.

In addition to the reasons provided with respect to claims 1 and 6, claim 7 requires "an encoder for encoding data to be stored in the storage memory," "a decoder for decoding data retrieved from storage memory" and "wherein the storage controller modifies operation of the storage system by turning off the decoder in the error correction logic of the storage memory interface." As previously described with respect to claim 1, White does not teach or suggest the error correction decoding circuit 5 is turned off in the sleep mode. None of the references cited by the Examiner, considered individually or together, teach or suggest the above limitation. For at least these additional reasons, claim 7 is allowable over the cited references.

In addition to the reasons provided with respect to claims 1, 6 and 7, claim 8 requires "the storage controller turns off the decoder by disconnecting power to the decoder." None of the references cited by the Examiner, considered individually or together, teach or suggest this limitation. For at least this additional reason, claim 8 is allowable over the cited references.

In addition to the reasons provided with respect to claims 1, 6, and 7, claim 9 requires "the storage controller turns off the decoder by disconnecting a clock signal to the decoder." None of the references cited by the Examiner, considered individually or together, teach or suggest this limitation. For at least this additional reason, claim 9 is allowable over the cited references.

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Appellants respectfully request reconsideration and that a timely Notice of Allowance be issued in this case. It is believed that no extensions of time or fees are required, beyond those that may otherwise be provided for in documents accompanying this paper. However, In the event that additional extensions of time are necessary to allow consideration of this paper, such extensions are hereby petitioned under 37 C.F.R. § 1.136(a), and any fees required (including fees for net addition of claims) are hereby authorized to be charged to Hewlett-Packard Development Company's Deposit Account No. 08-2025.

Respectfully submitted,

Alan D. Christenson PTO Reg. No. 54,036 CONLEY ROSE, P.C. (713) 238-8000 (Phone) (713) 238-8008 (Fax)

AGENT FOR APPELLANTS

HEWLETT-PACKARD COMPANY Intellectual Property Administration Legal Dept., M/S 35 P.O. Box 272400 Fort Collins, CO 80527-2400